Consolidated QC Abstract as per MORTH Frequency

***Name of Work::Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10**

Sl No	Description	Date of cube Casted	Quantity (in cumec)	No Of Samples Required as per IS456:2000	Number of cube Tested
1	Raft(M20)	02.05.2020	19.8	3	9
2	Wall(M20)	06.05.2020	23.24	3	9
3	Culvert(M20)	12.05.2020	16.58	3	9
4	Coping(M20)	21.05.2020	11.53	2	6
5	Road(M30)	26.05.2020	103.62	5	15
6	Road(M30)	31.05.2020	101.41	5	15
7	Road(M30)	02.06.2020	104.51	5	15
8	Road(M30)	10.06.2020	80	4	12
9	Road(M30)	15.06.2020	113.46	5	15
10	Cover Slab(M20)	03.05.2020	5	1	3
11	Cover Slab(M20)	19.05.2020	4.5	1	3
12	Cover Slab(M20)	24.05.2020	5.5	1	3

Frequency of Sampling as per IS456:2000,Page 29, Clause 15.2.2

The minimum frequency of sampling of concrete of each grade shall be in accoordance with the following		
Sl No	Quantity of Concrete in the Work,**cum**	Number of Samples
1	1-5	1
2	6-15	2
3	16-30	3
4	31-50	4
5	51 and above	4 Plus one
6		Additional Sample For each additional 50 cum

Certification

1.Concrete cubes casted as per IS Standards on the date of Concreting and Satisfactory

Yours faithfully

SHIPRAMA Consulting engineers Pvt Ltd

CONSULTIG ENGINEER Bangalore

Suvetha M.K AE W10

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SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(Mechanical Testing Laboratory Division)
ISO 9001:2015

Report No: SCEPL /MT/Mar/15/01/01/2019-20 **Date:15.03.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/Mar/15/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	15.03.2020
Period of Test	15.03.2020 to 17.03.2020
Sample Type & Size:	M Sand
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete IS 2386 Part 1-1963, IS 2386 Part 3-1963.

1. Sieve analysis

Total weight taken: 500 grams

SL. No	Sieve size mm	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10.00	0	0	0	100	100	100	100	100
2	4.75	24.5	24.5	4.9	95.10	90-100	90-100	90-100	95-100
3	2.36	120.5	145	29	71.00	60-95	75-100	85-100	95-100
4	1.18	103.2	248.2	49.64	50.36	30-70	55-90	75-100	90-100
5	0.6	98.5	346.7	69.34	30.66	15-34	35-59	60-79	80-100
6	0.3	85.2	431.9	86.38	13.62	5-20	8-30	12-40	15-50
7	0.15	68.1	500	100.00	0.00	0-20	0-20	0-20	0-20

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(Mechanical Testing Laboratory Division)

ISO 9001:2015

Report No: SCEPL /MT/Mar/15/01/01/2019-20 **Date:15.03.2020**

Sl.No	Name of Test		Test Result
1	Specific Gravity		2.64
2	Water Absorption (%)		1.46
3	Bulkdensity	Loose (Kg/Liters)	1.58
		Compacted (Kg/Liters)	1.75
4	Material Finer Than 75 Micron (%)		3.86

Remarks:-

The results pertain to the samples received and tested.
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate
* Information furnished by the client

*** End of the report***

BVH CONSULTING ENGINEER P. Ltd. Bangalore

SHIPRAMA Consulting Engineers P. Ltd. Bangalore

Authorized Signatory

Sweetha. N K
AE (JO

Assistant Executive Engineer
Jayaranyapura Sub Division
BBMP, Bangalore - 97

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Report No: SCEPL /MT/Mar/19/01/01/2019-20 **Date:22.03.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra
***** Letter Reference**	No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/Jul/19/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	19.03.2020
Period of Test	19.03.2020 to 22.03.2020
Sample Type & Size:	M Sand
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete IS 2386 Part 1-1963, IS 2386 Part 3-1963.

1. Sieve analysis

Total weight taken: 500 grams

SL. No	Sieve size mm	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10.00	0	0	0	100	100	100	100	100
2	4.75	24.5	24.5	4.9	95.10	90-100	90-100	90-100	95-100
3	2.36	59.5	84	16.8	83.20	60-95	75-100	85-100	95-100
4	1.18	103.2	187.2	37.44	62.56	30-70	55-90	75-100	90-100
5	0.6	65.5	252.7	50.54	49.46	15-34	35-59	60-79	80-100
6	0.3	103.2	355.9	71.18	28.82	5-20	8-30	12-40	15-50
7	0.15	95.5	451.4	90.28	9.72	0-20	0-20	0-20	0-20

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(Mechanical Testing Laboratory Division)

ISO 9001:2015

Report No: SCEPL /MT/Mar/19/01/01/2019-20 **Date:22.03.2020**

Sl.No	Name of Test		Test Result
1	Specific Gravity		2.60
2	Water Absorption (%)		1.89
3	Bulkdensity	Loose (Kg/Liters)	1.60
		Compacted (Kg/Liters)	1.80
4	Material Finer Than 75 Micron (%)		2.86

Remarks:-

The results pertain to the samples received and tested.

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

* Information furnished by the client

*** End of the report***

SHIPRAMA CONSULTIG ENGINEER PVT. LTD. Bangalore

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Authorized Signatory

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(Mechanical Testing Laboratory Division)

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Report No: SCEPL /MT/May/04/01/01/2019-20 **Date:07.05.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/04/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	04.05.2020
Period of Test	04.05.2020 to 07.05.2020
Sample Type & Size:	M Sand
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete IS 2386 Part 1-1963, IS 2386 Part 3-1963.

1. Sieve analysis

Total weight taken: 500 grams

SL. No	Sieve size mm	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10.00	0	0	0	100	100	100	100	100
2	4.75	24.5	24.5	4.9	95.10	90-100	90-100	90-100	95-100
3	2.36	59.5	84	16.8	83.20	60-95	75-100	85-100	95-100
4	1.18	103.2	187.2	37.44	62.56	30-70	55-90	75-100	90-100
5	0.6	65.5	252.7	50.54	49.46	15-34	35-59	60-79	80-100
6	0.3	103.2	355.9	71.18	28.82	5-20	8-30	12-40	15-50
7	0.15	95.5	451.4	90.28	9.72	0-20	0-20	0-20	0-20

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Report No: SCEPL /MT/May/04/01/01/2019-20 **Date:07.05.2020**

Sl.No	Name of Test		Test Result
1	Specific Gravity		2.60
2	Water Absorption (%)		1.89
3	Bulkdensity	Loose (Kg/Liters)	1.60
		Compacted (Kg/Liters)	1.80
4	Material Finer Than 75 Micron (%)		2.86

Remarks:-

The results pertain to the samples received and tested.
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* Information furnished by the client

*** End of the report***

SHIPRAMA CONSULTING ENGINEERS PVT. LTD. Bangalore

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(Mechanical Testing Laboratory Division)
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Report No: SCEPL/MT/Mar/17/01/1/2020-21 **Date:21.03.2020**

TEST REPORT

***Client Name & Address:** Asst. Executive Engineer,
Vidyaranya Pura Sub Division
BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/Mar/17/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 17.03.2020

Date of Test: 17.03.2020 to 21.03.2020

Sample Type/Size: 20 mm down size aggregate

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete
IS 2386 Part-1, IS 2386 Part 3-1963

1. Sieve analysis

Total weight taken: 5000 grams

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	40	0	0	0	100	100
2	20	156	156	3.12	96.88	95-100
3	10	2585	2741	54.82	45.18	25-55
4	4.75	2010	4751	95.02	4.98	0-10
5	Pan	249	5000	100.00	0.00	0-0

Sl.no	Tests		Result
1	Specifica Gravity		2.59
2	Water Absorption (%)		0.60
3	Bulk density	Loose (Kg/Liters)	1.67
		Compacted ((Kg/Liters)	1.80
4	Shape test	Flakiness Index (%)	20.15
		Elongation Index (%)	18.20

Remarks:-

The results pertain to the samples received and tested.

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Samples will be disposed after 90 days from the date of issue of test certificate

*** End of the report***

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(Mechanical Testing Laboratory Division)
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Report No: SCEPL/MT/May/02/01/1/2020-21 **Date:06.05.2020**

TEST REPORT

***Client Name & Address:** Asst. Executive Engineer,
Vidyaranya Pura Sub Division
BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020May/02/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 02.05.2020

Date of Test: 02.05.2020 to 06.05.2020

Sample Type/Size: 20 mm down size aggregate

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete
IS 2386 Part-1, IS 2386 Part 3-1963

1. Sieve analysis

Total weight taken: 5000 grams

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	40	0	0	0	100	100
2	20	185	185	3.70	96.30	95-100
3	10	2485	2670	53.40	46.60	25-55
4	4.75	1830	4500	90.00	10.00	0-10
5	Pan	500	5000	100.00	0.00	0-0

Sl.no	Tests		Result
1	Specifica Gravity		2.61
2	Water Absorption (%)		0.24
3	Bulk density	Loose (Kg/Liters)	1.65
		Compacted ((Kg/Liters)	1.82
4	Shape test	Flakiness Index (%)	19.18
		Elongation Index (%)	15.20

Remarks:-

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*** End of the report***

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Report No: SCEPL/MT/May/11/01/1/2020-21 **Date:15.05.2020**

TEST REPORT

***Client Name & Address:** Asst. Executive Engineer,
Vidyaranya Pura Sub Division
BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/May/11/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 11.05.2020

Date of Test: 11.05.2020 to 15.05.2020

Sample Type/Size: 20 mm down size aggregate

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete
IS 2386 Part-1, IS 2386 Part 3-1963

1. Sieve analysis

Total weight taken: 5000 grams

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	40	0	0	0	100	100
2	20	215	215	4.30	95.70	95-100
3	10	2525	2740	54.80	45.20	25-55
4	4.75	1910	4650	93.00	7.00	0-10
5	Pan	350	5000	100.00	0.00	0-0

1	Specifica Gravity		2.70
2	Water Absorption (%)		0.54
3	Bulk density	Loose (Kg/Liters)	1.60
		Compacted ((Kg/Liters)	1.80
4	Shape test	Flakiness Index (%)	17.18
		Elongation Index (%)	13.20

Remarks:-

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*** End of the report***

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